

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-21. (canceled)

22. (new) A device for treating soil by aeration, whereby the device may move transversely and be raised, the device comprising:

a frame and tools mobile with respect to said frame;

the tools being structured and arranged to sample cores in the soil;

the cores being ejected from the tools in an ejection area, and stored in said device;

a receiving member integral with the frame and arranged between the soil and the ejection area;

said receiving member comprising a flexible carpet having through openings for the tools, an upper face, and a lower face; and

said flexible carpet resting on the soil by at least one section of its lower face, whereby falling cores are stored on the upper face of the carpet.

23. (new) The device according to claim 22, wherein the receiving member is attached to a holding down clamp.

24. (new) The device according to claim 22, wherein the lower face of the carpet comprises protruding elements with respect to the general plane of the lower face.

25. (new) The device according to claim 24, wherein the lower face of the carpet comprises at least a series of protruding chevrons aligned along an axis parallel to the forward axis of the device and going through the axis of a corresponding core tool.

26. (new) The device according to claim 22, wherein each of the through openings comprises at least one chamfered edge.

27. (new) The device according to claim 22, wherein each of the through openings has a rear rim according to the forward direction of the device, said rear rim being chamfered.

28. (new) The device according to claim 22, further comprising a deflecting member fixed to the frame, at the rear of the ejection area so that the ejected cores are thrown back onto the receiving member.

29. (new) The device according to claim 22, wherein the receiving member comprises at least along both its free lateral edges rims intended for maintaining waste on the receiving member.

30. (new) The device according to claim 29, wherein at least a section of the rims intended for maintaining the waste on the receiving member comprises notches.

31. (new) The device according to claim 29, wherein the rim comprises an L-shaped band having a free side and a side in contact with the carpet, the side in contact with the carpet being substantially flat and the free side being corrugated.

32. (new) The device according to claim 22, wherein the receiving member is modular with at least two modules connected together by dismountable joints.

33. (new) The device according to claim 32, wherein the receiving member is divided transversely in several sections with respect to the forward direction of the device, the sections being hinged together by dismountable joints.

34. (new) The device according to claim 32, wherein the receiving member is divided into at least three sections corresponding respectively to a front section, an intermediate section and a rear section, whereby the intermediate section corresponds to the area of the through openings for the tools.

35. (new) The device according to claim 34, wherein the lower face of the intermediate section comprises bulges or spikes between 2 and 10 mm in height.

36. (new) The device according to claim 35, wherein the bulges or spikes are in the order of 4 mm in height.

37. (new) The device according to claim 34, wherein the lower face of the rear section comprises chevrons.

38. (new) The device according to claim 22, wherein the flexible carpet is made of an elastomer reinforced material.

39. (new) The device according to claim 22, wherein the flexible carpet is made of a reinforced polyurethane material.

40. (new) The device according to claim 22, wherein the receiving member is divided to form longitudinal bands, extending from front to back; said bands being hinged together by at least one dismountable joint.

41. (new) The device according to claim 32, wherein the dismountable joints comprise an elongated member linking rings that are staggered along the hinged edges of the modules, whereby the elongated member is a flexible cable.

42. (new) The device according to claim 22, further comprising means for unfolding or raising the carpet.

43. (new) Method for implementing a device for treating soil by aeration, which comprises sampling cores from the soil with tools, then storing the cores in the device of claim 22 comprising a flexible carpet, wherein the cores ejected from the tools and falling onto the upper face of the flexible carpet are stored, and the carpet rests on the soil by at least a section of its lower face.

44. (new) The method according to claim 43, wherein soil sanding is made previously to core boring.

45. (new) The method according to claim 44, wherein sweeping or brushing takes place at the rear of the receiving member.

Application No. 10/018,183  
Amdt. dated February 23, 2004  
Reply to Office Action of November 21, 2003  
Docket No. 0510-1036

AMENDMENTS TO THE DRAWINGS:

Figures 1-14 are replaced with a new set of formal drawings.